(19) World Intellectual Property Organization

International Bureau



553 395 T COURT BUILDING IN BUILDING HICH BODIN BENIN DIED I IN BODIN DIEDE BUILD DIEDE HINTE BUILD BUILDING HEEL HEEL

(43) International Publication Date 4 November 2004 (04.11.2004)

PCT

(10) International Publication Number WO 2004/095436 A1

(51) International Patent Classification7:

G11B 5/73

(21) International Application Number:

PCT/JP2004/005678

(22) International Filing Date: 21 April 2004 (21.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2003-116290 60/465,223

21 April 2003 (21.04.2003) 25 April 2003 (25.04.2003)

(71) Applicant (for all designated States except US): SHOWA DENKO K.K. [JP/JP]; 13-9, Shiba Daimon 1-chome, Minato-ku, Tokyo 105-8518 (JP).

(72) Inventor; and

(75) Inventor/Applicant (for US only): OHMORI, Masahiro [JP/JP]; c/o Showa Denko K.K. Oyama Plant, 1-480, Inuzuka, Oyama-shi, Tochigi 323-8678 (JP).

(74) Agents: FUKUDA, Kenzo et al.; Kashiwaya Bldg., 6-13, Nishishinbashi 1-chome, Minato-ku, Tokyo 105-0003 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

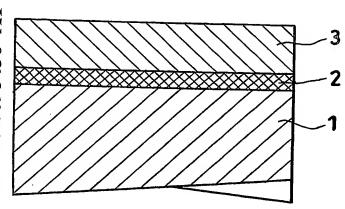
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SUBSTRATE FOR PERPENDICULAR MAGNETIC RECORDING MEDIUM AND METHOD FOR PRODUCTION THEREOF



(57) Abstract: A substrate for use in a perpendicular magnetic recording medium includes a blank substrate and a film of phosphorus- or boron-containing cobalt alloy formed on the blank substrate by electroless plating, the electroless plated film of the cobalt alloy having surface roughness Ra in the range of 0.05 nm to 1 nm. A method for the production of a substrate for use in a perpendicular magnetic recording medium includes a step of forming on a blank substrate a film of phosphorus-containing cobalt alloy by electroless plating and a step of polishing a surface resulting from the step of forming the film by the plating.

WO 2004/095436 AJ